

Purchasing Receipts

Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246



PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0042501	ACI001-VG	1	1	Net 30	M304S14GA	304SS sheet .080 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf				32	2/8/2019	32		S152141	Stock	2/8/2019	\$ 10.33 / sf	4		\$330.66	Acier Ouellette Inc.
		2			M304S18GA	304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf				128		128		S152142	Stock	2/8/2019	\$ 7.62 / sf	4		\$975.49	Acier Ouellette Inc.
		3			M6061T6R1.500	6061-T6 Round Bar 1.50 : MATERIAL: 6061-T6 T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				20		20		S152386	Stock	2/8/2019	\$ 6.77 / ft	4		\$135.33	Acier Ouellette Inc.
		4			M6061T6R4.000	6061-T6 Round Bar 4.000" : MATERIAL: 6061-T6 T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				6		6		S152387	Stock	2/8/2019	\$ 49.79 / ft	4		\$298.72	Acier Ouellette Inc.
		5			M6061T6R5.000	6061-T6 Round Bar 5.000" : MATERIAL: 6061-T6 T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				12	12/2/15/2019	12		S152621	Stock	2/11/2019	\$ 74.46 / ft	1		\$893.54	Acier Ouellette Inc.

PO No	Supplier Item No	Line No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		6			M304R0.750	304 SS Roundbar .750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft				73	2/8/2019	73		S152403	Stock	2/8/2019	\$ 4.90 / ft	4		\$357.40	Acier Ouellette Inc.
		7			M303R0.750	303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft				41		41		S152404	Stock	2/8/2019	\$ 5.41 / ft	4		\$223.45	Acier Ouellette Inc.
		10			M1018R0.625	M1018R0.625 : MATERIAL: AISI 1018- 1025 ROUND BAR AS PER MIL-S-7097 OR ASTM A108 receive ft				20		19		S152409	Stock	2/8/2019	\$ 1.21 / ft	4		\$22.61	Acier Ouellette Inc.
		11			M6061T6B0.375X2.000	6061-T6 Bar .375 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		20		S152413	Stock	2/8/2019	\$ 3.33 / ft	4		\$66.59	Acier Ouellette Inc.
		12			M6061T6B1.000X06.000	6061T6 Bar 1.00 X 6.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S152414	Stock	2/8/2019	\$ 28.19 / ft	4		\$338.31	Acier Ouellette Inc.
		13			M6061T6B2.000X02.000	6061-T6 Bar 2.00 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S152415	Stock	2/8/2019	\$ 17.45 / ft	4		\$209.39	Acier Ouellette Inc.
		14			M1018B0.500X01.500	1010-1025 Steel Bar .500 X 1.500 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						12		S152416	Stock	2/8/2019	\$ 3.72 / ft	4		\$44.96	Acier Ouellette Inc.

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
Total:												388									
												387									\$2,937.64

Plex 2/12/2019 8:20 AM dart.Tollis.Andrew



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO042501



Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO042501

PO Date: 2/5/19

Due Date: 2/15/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
FEB 06 2019

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: sou0159739

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M304S14GA ✓		304SS sheet .080 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240 receive sf	Firmed -		2/15/19	32 sf	0 sf	32 sf	\$10.333/sf	\$330.66
2		M304S18GA ✓		304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed -		2/15/19	128 sf	0 sf	128 sf	\$7.621/sf	\$975.49
3		M6061T6R1.500		6061-T6 Round Bar 1.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed -		2/15/19	20 ft	0 ft	20 ft	\$6.7665/ft	\$135.33
4		M6061T6R4.000		6061-T6 Round Bar 4.000" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed -		2/15/19	6 ft	0 ft	6 ft	\$49.78666/ft	\$298.72



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Canada

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PURCHASE ORDER

PO042501



Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5		M6061T6R5.000		6061-T6 Round Bar 5.000" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	2/15/19	12 ft	0 ft	12 ft	\$74.461666/ft	\$893.54
								✓ 12 ft		At 19/02/11		
Line item Note: cut in section of 6 ft												
6		M304R0.750		304 SS Roundbar .750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	2/15/19	72 ft	0 ft	72 ft	\$4.8958333/ft	\$352.50
								✓ 73 ft		At 19/02/11		
7		M303R0.750		303 Round Bar 0.750 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft	Firmed	-	2/15/19	36 ft	0 ft	36 ft	\$5.4063888/ft	\$194.63
								✓ 41.33		At 19/02/11		
8		MT-4140-S-1.625X5.000		4140 Steel Sheet 1.625 X 5.000 : MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	-	2/21/19	6 ft	0 ft	6 ft	\$101.16666/ft	\$607.00
9		MT-4140-S-0.500X10.000		AISI 4140 Steel Sheet/Plate : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC	Firmed	-	2/21/19	36 ft	0 ft	36 ft	\$52.50/ft	\$1,890.00
10		M1018R0.625		M1018R0.625 : MATERIAL: AISI 1018-1025 ROUND BAR AS PER MIL-S-7097 OR ASTM A108 receive ft	Firmed	-	2/15/19	20 ft	0 ft	20 ft	\$1.206/ft	\$24.12
								✓ 18.75		At 19/02/11		



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Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
11 ✓ AT		M6061T6B0.375X2.000		6061-T6 Bar .375 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	2/15/19	20 ft	0 ft	20 ft	\$3.3295/ft	\$66.59
12 ✓ AT		M6061T6B1.000X06.000		6061T6 Bar 1.00 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	2/15/19	12 ft	0 ft	12 ft	\$28.1925/ft	\$338.31
13 ✓ AT		M6061T6B2.000X02.000		6061-T6 Bar 2.00 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	2/15/19	12 ft	0 ft	12 ft	\$17.449166/ft	\$209.39
14 ✓ AT		M1018B0.500X01.500		1010-1025 Steel Bar .500 X 1.500 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	-	2/15/19	12 ft	0 ft	12 ft	\$3.721666/ft	\$44.66

Grand Total: \$6,360.93

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable). No Raw Metals from China or Soviet Bloc Countries
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program.

A049 supplier awareness.

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00131326

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att :

Delivery Route 5

Customer N°

2019/02/06

Delivery date

2019/02/08

Your order N°

PO042501

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 SHEET SS 14G SS304-2B (4 X 8) ✓ FESS-14G483042B 3412 1 X 4' X 8' PO 042501 LINE 1 HEAT : 088E	104.99	32.00	PI2_\$CLB		1 X 4' X 8'					
2 SHEET SS 18G SS304-2B (4 X 8) ✓ FESS-18G483042B 3425 4 X 4' X 8' PO 042501 LINE 2 HEAT : 088E	268.80	128.00	PI2_\$CLB		4 X 4' X 8'					
3 ROUND ALU 6061-T6 1 1/2 * RAL-112 5119 1 X 20' PO 042501 LINE 3 HEAT : SXFI80601	41.52	20.00	PI_\$CLB		20'					
4 ROUND ALU 6061-T6 4 * RAL-4 5163 1 X 6' PO 042501 LINE 4 HEAT : SXFI71963	88.58	6.00	PI_\$CLB		6'					
5 ROUND SS 304 3/4 (R) 5762 RSS-34 6 X 12' R/L PO 042501 LINE 6 HEAT : 1804J1172	108.14	1.00	UN		4 X 12' 2" 48.67 2 X 12' 1" 24.37					



DELIVERY - CLIENT

CO00131326

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
6 ROUND SS 303 3/4 (R) RSS-34303 3 X 12' R/L PO 042501 LINE 7 HEAT : 51049 M	54.07	36.00	PI_\$CLB		2X13'11"		127.83				
7 ROUND CR 5/8 1018 (R) RCR-58 1 X 20' R/L PO 042501 LINE 10 HEAT : 41508G M	20.80	20.00	PI_\$CLB		1X13'6"		127.83				
8 FLAT ALU 3/8 X 2 6061-T6 * FAL-382 1 X 20' PO 042501 LINE 11 HEAT : 5X171944 M	18.00	20.00	PI_\$CLB		1X18'9"						
9 FLAT ALU 1 X 6 6061-T6 * FAL-16 1 X 12' PO 042501 LINE 12 HEAT : 5X180811 M	84.59	12.00	PI_\$CLB		20'						
10 SQUARE ALU 6061-T6 2 * CAL-2 1 X 12' PO 042501 LINE 13 HEAT : F1010046 M	56.45	12.00	PI_\$CLB		12'						
11 FLAT CR 1/2 X 1 1/2 1018 (R) FCR-12112 1 X 12' R/L PO 042501 LINE 14 HEAT : 2170922	30.60	12.00	PI_\$CLB		12'11"						

Note : ATTENTION: MILL TEST REQUIS

Note : ATTENTION: MILL TEST REQUIS



DELIVERY - CLIENT

CO00131326

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only					
				CMD	EXP	B/O	IN	I	S	C	OUT	
Total Weight (Lbs) : 876.54				NIR : R-109516-6								
Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.												
Prepared By :	Verified By : 	Delivered By :	Time	Y M D			Date					
				Customer's Signature								

TRA-2833

Q-Y-Q-33-07-C

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

FINISH:

FINISH IDENTIFIER
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6P
BUFFED No. 7P
BUFFED No. 8P

PART NUMBER:

M304S16GA #P

WHERE "TT" = GAUGE THICKNESS
WHERE "P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
25	0.01875	0.0178 - 0.019
24	0.021875	0.0209 - 0.023
23	0.025	0.024 - 0.026
22	0.028125	0.027 - 0.029
21	0.03125	0.030 - 0.032
20	0.034375	0.033 - 0.035
19	0.0375	0.036 - 0.040
18	0.04375	0.041 - 0.046
17	0.050	0.047 - 0.052
16	0.05625	0.053 - 0.059
15	0.0625	0.059 - 0.065
14	0.0703125	0.066 - 0.072
13	0.076125	0.073 - 0.083
12	0.08375	0.084 - 0.098
11	0.109375	0.099 - 0.114
10	0.125	0.115 - 0.130
9	0.140625	0.131 - 0.145
8	0.15625	0.146 - 0.160
7	0.171875	0.161 - 0.178
6	0.1875	0.182 - 0.194
5	0.2031	0.194 - 0.212
4	0.2188	0.201 - 0.228
3	0.2344	0.225 - 0.243
2	0.2500	0.238 - 0.262
1	0.2656	0.254 - 0.278
0	0.2813	0.269 - 0.293
	0.3125	0.301 - 0.325

RELEASED
2015 FEB 04
E2015-122 q'

REV.	DESCRIPTION	DATE
D	ADDED GAUGES 0-7.	AJS 15.01.06
C	DEFINED FINISH OPTION (ZN CR) AND EXAMPLE OF MATERIAL P/N WITH FINISH OTHER THAN 2B (ZN BS).	MB 12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN 08-1). ADD GAUGE REF (C8-1). REF PAR 08-020A	CP 09.06.01
A	NEW ISSUE	DS 01.09.24
DESIGN	DS	BY
DRAWN	AJS	DATE
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	15.01.06	
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWING NO. M304S		
TITLE 304/316 SS SHEET		
SHEET 1 OF 1		
SCALE NTS		

THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES SPECIFIED ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S14GA
 DATE: 19.02.08

PO / BATCH NO.: B042501/S1S2141

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 32 sq/Ft
 QUANTITY INSPECTED: 32 sq/Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 14 GA
 THICKNESS RECEIVED: .080
 SHEET SIZE ORDERED: 4'x8'
 SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A240
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT# A10040477
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>PD</u>	SIGNED OFF BY: _____		
DATE: <u>19.02.08</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

3425

FESS-1864830428

TRA-2855



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

51269

Certificate: 231861 2 Mail To:

Ship To:

Date: 10/26/2016 Page: 1

Customer: 007035 501

Steel: 304

Finish: 2B

Your Order: 781026

WAS Order: EN 0069821 14

Corrosion: ASTM A262/15 A, 180 Bend-OK

PRODUCT DESCRIPTION

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED, UNS 30400
ASTM A240/95b, A480/15, A666/15, ASME SA240/15, SA480/15, SA666/15
CHEM ONLY ON FOLLOWING ASME: A276/16, A479/16, A484/15, A312/16
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
AMS 5513J 2XRX, MIL-S-8059D AMENDS (X CROWN WEAR)
NACE MR0175/ISO 15156-3:2009 A, MR0103/07/QQST66D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1, ROHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: HAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DEFA Compliant

ACTER OUELLETTE INC. P.O. - AC2438/AC2447 S.O. - 386343

Product Id	Coil #	Std #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
03088E B	03088E B		0.0480	48.0000	20,720	COIL		1	71261498

CHEMICAL ANALYSIS CH(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CR %	CU %	MO %	NI %	P %	S %
088E	US	0.0450	16.0445	0.4925	1.6575	0.3220	0.0598	8.0190
								0.0290
								0.0010

SI %

0.2470

MECHANICAL PROPERTIES

Product Id#	Coil #	1/4 of F	UTS ksi	20C ksi	20C %ELONG %2"	% Hard RB	Tail Hard NO.	Grain NO.
03088E B	03088E B	F T	100.16	52.12	47.23	88.00	84.00	10.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

10/26/2016

SPECIFICATION CONTROL DRAWING

Line 2
M304S16GA

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5613 (304)
OR AMS 5624 (316) **D**
OR ASTM A240 **D**
OR ASME SA240

FINISH:

DART M-NUMBER

FINISH

UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.08375	0.084 - 0.088
12	0.09375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.226
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.276
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-122

D	ADDED GAUGES 0-7.	AJS	15.01.06
C	DEFINED FINISH OPTION (ZN CB) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (ZN BS).	MB	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN DB-1). ADD GAUGE REF (CB-1). REF PAR 06-020A	CP	09.08.01
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	AJS		
CHECKED			
MFG. APPR.	M304S		
APPROVED			
DE APPR.			
DATE	15.01.06		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304S			
REV. D			
SHEET 1 OF 1			
SCALE			
NTS			

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S18GA
 DATE: 19-02-03

PO / BATCH NO.: P0042501/S152142

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 128 sq Ft
 QUANTITY INSPECTED: 128 sq Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 18 GA
 THICKNESS RECEIVED: .050"
 SHEET SIZE ORDERED: 4'x8'
 SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ASTM A240</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>HT# 033E</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input type="checkbox"/>	<input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input type="checkbox"/>	<input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>D</u>	SIGNED OFF BY: _____		
DATE: <u>19-02-03</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5119

RAL-112

TRA-3858

53004



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THIANG DISTRICT,
BA RIA VUNG TAU PROVINCE, VIET NAM
Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATEDate: May 21st, 2018

Consignee: SINOPEC TRADING INC.
4455 RUE COUSSENS, SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-18198
Shipping Ref No.: 18-0959
LC No.: DC HMN811713
Date of issue: May 10, 2018
Item Code: 1065900
Die Number: D00186
Alloy & Temper: 6061-T6
Production Description: ALUMINIUM EXTRUDED PROFILES
Round Bar 1-1/2" x 20' 6061-T6 D00186
Length (inch): 240
Bundle number: P-18198-067
Heat Number: SXF180601
Date: 24/04/2018
Applicable Specifications: ASTM B221 STANDARDS

RAL112

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.654	0.984	0.249	0.265	0.024	0.079	0.010	0.019	97.623	<0.05	<0.10	21/04/2018

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
39.6	35.3	10.4	21/04/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TAM KIEM NGHIEM COMPANY
THANH HOA THANH PHO HAI PHONG
GLOBAL VIETNAM ALUMINIUM
CALIBRATION CENTER

Heat: SXF 180601

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-T6 D351/T8510/T8511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/B OR AMS-QQ-A-200/B (OR AMS 4160)
OR ASTM B211 OR ASTM B221 AT

PART NUMBER: M6061T6R(D,DDD)
DIA.

WHERE "D DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

See 3
6061T6R 1.500

RELEASED
R 2009-09-09
MP

B	REFORMAT DWG. ADD B211 & B221 SPEC (2N D8-1).	CP	09.07.13
A	NEW ISSUE	DS	01.06.09
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6R			
REV. B			
SHEET 1 OF 1			
TITLE 6061-T6 ROUND BAR			
SCALE NTS			
DATE 09.07.13			
COMPONENT IS 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS FOR THE USE OF THE CUSTOMER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6R1.500
 DATE: 1/20/11

PO / BATCH NO.: P0042501/S152386

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 20ct
 QUANTITY INSPECTED: 20ct
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	MT: SXF180601
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>1/20/11</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5163

KHL-7

TRA 2006

49567



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: November 15, 2017

Applicant/Consignee: SINOMETAL RESOURCES INC.
4455 RUE COUSPINS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: 17-P-565

Shipping Ref No.: 17-2203

LC No.: DC HMN714559

Date of issue: November 07, 2017

Item Code: 1075503

Die Number: D00529

Alloy & Temper: 6061-T6511

Production Description: Round Bar 4"x12x 6061-T6511

Length (inch): 144

Unit weight (kg/meter): 21.971

Bundle number: 17-P-565-112, 17-P-565-113, 17-P-565-115, 17-P-565-114

Heat Number: SXF171963

Date: 19/10/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remarks
									EACH	TOTAL	
0.576	0.945	0.228	0.251	0.014	0.086	0.010	0.028	97.768	<0.05	<0.10	17/10/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remarks
41.6	38.5	12.7	17/10/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

Heat: SXF171963

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-T6/T651/T6510/T651/T62 ALUMINUM ROUND BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R/D.DDD
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

Line 4
M6061 T6R 4.000

RELEASED
R 2009-09-09
MAD

B	REFORMAT DWG. ADD B211 & B221 SPEC (ZIN D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6R		REV. B	
TITLE 6061-T6 ROUND BAR		SHEET 1 OF 1	
DATE		SCALE	
09.07.13		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 R4.000
 DATE: 1/4/2011

PO / BATCH NO.: P0042501/S152387

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 6FT
 QUANTITY INSPECTED: 6FT
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.000"
 THICKNESS RECEIVED: 4.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

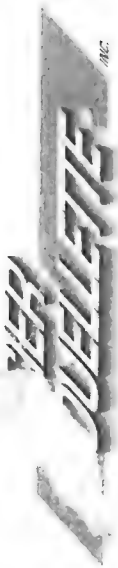
DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	HT: SxE171963
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: FEB 11 2019	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy

CO00131334

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att :

Instruction

F-M

Delivery Route 5

Customer N° CLI0001056

Date 2019/02/06

Delivery date 2019/02/11

Your order N° 42501

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ROUND ALU 6061-T6 5 * RAL-5 5170 1 X 12' PO 42501 LINE 5 HEAT: 6XFI80290 TRANSIT ST-JEROME 07/02 SAW CUT	276.48	12.00	PL \$CLB							
		1.00	UN_\$UN							
		1.00	UN							

Note : ATTENTION: MILL TEST REQUIS

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 276.48

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Date

Traist
#576



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIET NAM
Tel: 84(0)643924954
Fax: 84(0)643924953

MILL TEST CERTIFICATE

Date: April 16th, 2018

PO number: 18-P-065M
Shipping Ref No.: 18-0771
I.C No.: DC HMN811302
Date of Issue: April 10, 2018
Item Code: 1042803
Die Number: D00324
Alloy & Temper: 6061-T6
Production Description: ALUMINIUM EXTRUDED PROFILES
Round Bar .5" x 20' 6061-T6 D00324
Length (inch): 240
Bundle number: 18-P-065M-114, 18-P-065M-113, 18-P-065M-112, 18-P-065M-111
Heat Number: SXF180290
Date: 05/03/2018
Applicable Specifications: ASTM B221 STANDARDS

RAL 5

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remarks
									EACH	TOTAL	
0.656	0.967	0.220	0.246	0.008	0.073	0.024	0.017	97.695	≤0.05	≤0.10	02/03/2018

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remarks
38.5	35.2	10.6	02/03/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED
18-P-065M-114, 18-P-065M-113, 18-P-065M-112, 18-P-065M-111
SXF180290

Heat: SXF180290

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-T6/7051/70510/70511/702 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4180)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R(D.DDD)
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-09-09
MAD

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D8-1).	CP	09 07 13
A	NEW ISSUE	DS	01 08 00
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD	
HAMKESBURY, ONTARIO, CANADA	
DRAWING NO.	M6061T6R
TITLE	6061-T6 ROUND BAR
SCALE	NTS
SHEET 1 OF 1	

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IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 R5-000
 DATE: 1/20/21

PO / BATCH NO.: 00002501/5152601

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12Ft
 QUANTITY INSPECTED: 12Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 5.000"
 THICKNESS RECEIVED: 5.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM B221
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	MT: SXF180290
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: <u>FEB 11 2021</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



**MILL TEST CERTIFICATE
(INSPECTION CERTIFICATE)**
In Accordance with EN 10204 :2004 Type 3.1

Jindal Stainless (Hisar) Limited.
Hot Rolling Division

19821

5762

RSS-34

52186

CUSTOMER	: EXCEL STAINLESS LLC	CERTIFICATE NO.	: JSHL-HRD/QA/2018-19/ER/00000986
CITY	: WARRENVILLE IL	DATE	: 26.06.2018
OA NO	: 0963-LP	NET WT(Lbs)	: 22678.927
SALES ORDER NO.	: 3500010217	COMMERCIAL INV. NO.	: H20181980103
PROFORMA INVOICE NO.	: 6100024414	OA DATE:	: 16.03.2018
		SO DATE:	: 16.03.2018
		DATE:	: 26.06.2018

Material Description/Product	STAINLESS STEEL COLD FINISHED ROUND BAR	Material Specifications	ASTM A276/A276M - 2017/ASME SA 276 SEC.II PART A - 2017	Process-Route	EAF-AOD/VOD-LRF-CCS/INGOT	Dimension Tolerance specification	As per OA/PO Agreement.
-------------------------------------	---	--------------------------------	---	----------------------	---------------------------	--	-------------------------

SR NO	BATCH NO	PACKET NO	WEIGHT (Lbs)	NO OF PCS	HEAT NO	GRADE	DIA/SIZE (inch)	NOML LENGTH (inch)	FINISH	QUALITY
1	1804AR6948	1804AR6948	731.934	40	1804J1172	304L/304	0.750	144.000	CD	PRIME
2	1804AR6636	1804AR6636	1078.059	59	1804J1172	304L/304	0.750	144.000	CD	PRIME
3	1804AR6635	1804AR6635	1188.290	65	1804J1172	304L/304	0.750	144.000	CD	PRIME
4	1805AR6533	1805AR6533	1216.950	149	1805J1059	304L/304	0.500	144.000	CD	PRIME
5	1804AR6548	1804AR6548	1150.812	141	1804J1355	304L/304	0.500	144.000	CD	PRIME
6	1804AR6547	1804AR6547	1175.062	144	1804J1355	304L/304	0.500	144.000	CD	PRIME
7	1804AR6912	1804AR6912	1128.765	256	1804J1355	304L/304	0.375	144.000	CD	PRIME
8	1804AR6911	1804AR6911	1040.581	236	1804J1355	304L/304	0.375	144.000	CD	PRIME

SR NO	HEAT NO	GRADE	C%	Mn%	S%	P%	Si%	Ni%	Cr%	N%	Mo%	Cu%	Ti%	Nb/Cb%	Al%
1	1804J1172	304L/304	0.021	1.55	0.025	0.037	0.36	8.05	18.09	0.070					
2	1804J1172	304L/304	0.021	1.55	0.025	0.037	0.36	8.05	18.09	0.070					
3	1804J1172	304L/304	0.021	1.55	0.025	0.037	0.36	8.05	18.09	0.070					
4	1805J1059	304L/304	0.025	1.58	0.022	0.037	0.40	8.03	18.23	0.072					
5	1804J1355	304L/304	0.022	1.59	0.022	0.037	0.36	8.05	18.15	0.070					
6	1804J1355	304L/304	0.022	1.59	0.022	0.037	0.36	8.05	18.15	0.070					
7	1804J1355	304L/304	0.022	1.59	0.022	0.037	0.36	8.05	18.15	0.070					
8	1804J1355	304L/304	0.022	1.59	0.022	0.037	0.36	8.05	18.15	0.070					

MECHANICAL PROPERTIES SAMPLE DIRECTION LONGITUDINAL										ADDITIONAL INFORMATION									
Sr No.	Packet/Batch No.	Dia inch	Rp 0.2/YS ksi	Rp 1.0 ksi	Rm/TS ksi	%EL A 2 inch	%EL 4d - 5d/16 inch	Hardness BHN	%RA	(1) Material solution annealed in accordance with requirements as laid in ASTM A 484/A 484M ED.2018 / ASME SA 484/SA 484M SEC.II PART A-17 (Table 2, Annealing Requirements). Material solution annealed at temperature 1050°C minimum, Soaking time @ 1 minute/mm and followed by water quenching. (2) Material also Confirms to ASTM A 479-17, COND A (Chemically & mechanically), ASTM A 182-18 (Chemical only) (3) IGC test as per ASTM A 262 practice (E) and after exposure the specimens were bent (1 T:180 degree) and inspected at magnification of 20X and found without any cracks. (4) Micro examination: Step structures per ASTM A 262 practice (A) (5) Grain Size as per E112-2013 and confirms to ASTM No. 4 or Finer (6) No weld repair has been done on product. (7) Above material confirms to requirements as per NACE MR 0175 / ISO: 15156-3 : 2015 / MR 0103 / ISO: 17945 : 2015 (8) Dimension tolerances as per ASTM A484/484M-18 (9) 100% bars were checked for PMT testing by XRF and found satisfactory. (10) Gauge length 4D. under FINISH column CD stands for COLD DRAWN MILL TEST CERTIFICATE - PART 3 OF 5 Buyer / Customer PO No. BN6090									
1	1804AR6948	0.750	67.152	99.350	47			213											
2	1804AR6636	0.750	67.152	99.350	47			213											
3	1804AR6635	0.750	67.152	99.350	47			213											
4	1805AR6533	0.500	68.312	98.915	47			226											
5	1804AR6548	0.500	69.328	100.94	46			202											
6	1804AR6547	0.500	69.328	100.94	46			202											
7	1804AR6912	0.375	71.213	103.70	45			219											
8	1804AR6911	0.375	71.213	103.70	45			219											

Jindal Stainless (Hisar) Limited. Hot Rolling Division. O.P. Jindal Marg, HISAR-125005, INDIA. TEL: +91-1662-223471-83. FAX: +91-1662-220406, 220476. Email: testing.his@jssl.com Form No. Ref: QAD/55/F-1, 01 Date: 01/09/2016	This is hereby certified that the material was manufactured, sampled, tested & inspected in accordance with requirements of the material specification, SOFPO and has been found to meet these requirements.	QMS ISO 9001: 2015 CERTIFIED COMPANY	Documents Digitally signed by Jindal Stainless (Hisar) Limited Signer: Amit Mishra Date: 27 June 2018 10:22 AUTHORISED SIGNATORY (QUALITY ASSURANCE DEPT.)
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Any unauthorised usage of this Test Certificate will warrant Legal Action.

SPECIFICATION CONTROL DRAWING

Line 6

M 304R0.750 AT

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276
PART NUMBER: M304R0.750 DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

RELEASED
CT 128/231/142

B	REFORMAT DWG. ADD SPECS (ZN D6-1).	CP	09.07.15
A	NEW ISSUE	AJS	08.03.03
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	W		
CHECKED	W		
MFG. APPR.	W		
APPROVED	W		
DE APPR.	W		
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304R		REV. B	
TITLE 304/316 ROUND BAR		SHEET 1 OF 1	
DATE		SCALE MTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 304R0.750
 DATE: 19/02/11

PO / BATCH NO.: P0042501/S152403

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 7351
 QUANTITY INSPECTED: 7351
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A276
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	HT. 1804J1172
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> <u>9-80</u>	SIGNED OFF BY: _____
DATE: <u>FEB 11 2019</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

Line 7.

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: ASTM A882

PART NUMBER: M303R0.000

DIA. 0.750

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

RELEASED
R 2010-02-02
NR

B	REFORMAT DWG. ADD SPECS (ZN D8-11).	CP	10.01.05
A	NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R			
TITLE 303 ROUND BAR			
SCALE NTS			
SHEET 1 OF 1			
REV. B			
COPYRIGHT © 2004 DART AEROSPACE LTD. THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M30360.750

PO / BATCH NO.: PJ042501/S152404

DATE: 14/02/11

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.750"

QUANTITY RECEIVED: 41.33 FT

THICKNESS RECEIVED: 0.750"

QUANTITY INSPECTED: 41.33 FT

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	ASTM A582
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	41.53049
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: 61
9-80

SIGNED OFF BY: _____

DATE: FEB 11 2019

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5351

RCR-58

TRA-1922


**CALIBRADOS
PRADERA, S.A.**

ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

49181

3 pages

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

ST. PEDIDO Part. Order	DESCRIPCIÓN Description	KGS.	TOLERANCIA TOLERANCE	OF	MEDIDA Measurement
PAR-47152	12L14 HEX. ESTIRADO 31,75 (1 1/4")	996	-0,076	915907	31,75
PAR-47472	12L14 RED. ESTIRADO 50,80 (2")	1.034	-0,076	916489	50,80
PAR-47851	12L14 RED. ESTIRADO 50,80 (2")	1.090	-0,076	916489	50,80
PAR-47851	1018 RED. ESTIRADO 31,75 (1 1/4")	994	-0,051	139211	31,75
MJP-47856	12L14 RED. ESTIRADO 25,40 (1")	3.000	-0,051	139256	25,40
PAR-47786	1018 RED. ESTIRADO 30,16 (1 3/16")	1.090	-0,051	139297	30,16
PAR-47786	12L14 RED. ESTIRADO 19,05 (3/4")	2.002	-0,051	202433	19,05
MJP-47861	12L14 HEX. ESTIRADO 31,75 (1 1/4")	994	-0,076	915907	31,75
OU-47812	1018 RED. ESTIRADO 9,53 (3/8") RCR 38	1.040	-0,051	139333	9,53
SM-47572	1018 RED. ESTIRADO 9,53 (3/8")	1.040	-0,051	139477	9,53
SM-47572	1018 RED. ESTIRADO 31,75 (1 1/4")	1.988	-0,051	139481	31,75
AQM-47672	1018 RED. ESTIRADO 31,75 (1 1/4")	1.990	-0,051	139547	31,75
OU-47832	12L14 RED. ESTIRADO 19,05 (3/4")	1.998	-0,051	202313	19,05
OU-47832	1018 RED. ESTIRADO 15,88 (5/8") RCR 58	2.004	-0,051	139624	15,88
OU-47832	1018 RED. ESTIRADO 31,75 (1 1/4") RCR 114	996	-0,051	139627	31,75
MJP-47896	1018 RED. ESTIRADO 15,88 (5/8")	1.010	-0,051	139776	15,88

Composición química de la colada / Chemical Analysis of Heat

MEDIDA Measurement	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% Ni	% P	% Pb	% S	% Si
31,75	0,00	915907	0,070	0,090	0,230	1,110	0,030	0,110	0,051	0,210	0,329	0,020
50,80	0,00	916489	0,060	0,000	0,000	1,120	0,000	0,000	0,043	0,220	0,318	0,010
50,80	0,00	916489	0,060	0,000	0,000	1,120	0,000	0,000	0,043	0,220	0,318	0,010
31,75	0,00	139211	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
25,40	0,00	139256	0,060	0,086	0,014	1,130	0,006	0,023	0,063	0,300	0,310	0,003
30,16	0,00	139297	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
19,05	0,00	202433	0,071	0,046	0,019	1,085	0,004	0,029	0,060	0,295	0,292	0,008
31,75	0,00	915907	0,070	0,090	0,230	1,110	0,030	0,110	0,051	0,210	0,329	0,020
9,53	0,00	139333	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160
9,53	0,00	139477	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160
31,75	0,00	139481	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
31,75	0,00	139547	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
19,05	0,00	202313	0,071	0,046	0,019	1,085	0,004	0,029	0,060	0,295	0,292	0,008
15,88	0,00	139624	0,160	0,000	0,000	0,650	0,000	0,000	0,021	0,000	0,023	0,142
31,75	0,00	139627	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
15,88	0,00	139776	0,160	0,000	0,000	0,650	0,000	0,000	0,021	0,000	0,023	0,142

Características mecánicas / Mechanical properties

heat: 41508 G



ARANA Y LUPARDO, 2
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www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strength N/mm ²	Lím.elástico Yield point 0,2% N/mm ²	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %
31,75	915907	39680 W	533,38	523,05	12,04	169,00	45,79
50,80	916489	41232 IS	515,66	509,28	16,20	178,00	53,91
50,80	916489	41232 IS	515,66	509,28	16,20	178,00	53,91
31,75	139211	41410 AG	558,02	536,07	36,40	159,00	57,29
25,40	139256	41300 AG	556,11	543,10	19,46	159,00	46,32
30,16	139297	41411 AG	551,06	525,36	37,06	165,00	59,43
19,05	202433	41406 AA	584,38	568,82	16,86	172,00	47,83
31,75	915907	39680 W	533,38	523,05	12,04	169,00	45,79
9,53	139333	41460 GM	735,60	691,90	12,70	216,00	59,96
9,53	139477	41460 GM	735,60	691,90	12,70	216,00	59,96
31,75	139481	41410 AG	558,02	536,07	36,40	159,00	57,29
31,75	139547	41410 AG	558,02	536,07	36,40	159,00	57,29
19,05	202313	41406 AA	584,38	568,82	16,86	172,00	47,83
15,88	139624	41508 G	602,29	574,24	20,18	176,00	60,19
31,75	139627	41410 AG	558,02	536,07	36,40	159,00	57,29
15,88	139776	41508 G	602,29	574,24	20,18	176,00	60,19

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
12L14 RED. ESTIRADO 50,80 (2")	916489	2
12L14 RED. ESTIRADO 50,80 (2")	916489	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139211	3
12L14 RED. ESTIRADO 25,40 (1")	139256	3
1018 RED. ESTIRADO 30,16 (1 3/16")	139297	2
12L14 RED. ESTIRADO 19,05 (3/4")	202433	3
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
1018 RED. ESTIRADO 9,53 (3/8")	139333	2
1018 RED. ESTIRADO 9,53 (3/8")	139477	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139481	3
1018 RED. ESTIRADO 31,75 (1 1/4")	139547	3
12L14 RED. ESTIRADO 19,05 (3/4")	202313	3
1018 RED. ESTIRADO 15,88 (5/8")	139624	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139627	3
1018 RED. ESTIRADO 15,88 (5/8")	139776	2



ARANA Y LUPARDO, 2
48490 UGAO-MIRA VALLES/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
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www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704 Delivery Note Nr.	CLIENTE LES ACIERS TRANSBEC (1997) LTÉE CUSTOMER
------------------------------------	---

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norma:

Bright steel products. Technical delivery conditions.

Observaciones: BARRAS DE ACERO ESTRIADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 08/06/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
ISO 9001:2008
www.tuv.com
ID: 1100004024

SPECIFICATION CONTROL DRAWING

Line 10
M1018R0.625

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION: MIL-S-7097 OR ASTM A108

PART NUMBER: M1018-R(D.DDD) WHERE D.DDD = DIAMETER IN INCHES
DIA.

EG. 7/8" ROUND BAR = M1018-R0.875

TOLERANCES:

PER ASTM A108 AS FOLLOWS:

SIZE TOLERANCE
UP TO 1.5" INCL. +0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-09-24
MJD

B	REFORMAT, ADD ASTM A108, ADD TOLERANCES	CP	12.09.05
A	NEW ISSUE	DS	01.06.12
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	CP		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.09.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO		REV. B	
M1018-R		SHEET 1 OF 1	
TITLE		SCALE	
1018-1025 ROUND BAR		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018 RD 0.625
 DATE: 1/9/2019

PO / BATCH NO.: P00042501/S152409

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 18.75 Ft
 QUANTITY INSPECTED: 18.75 Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625"
 THICKNESS RECEIVED: 0.625"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y N	
CORRECT MATERIAL PER M-DRAWING	Y N	ASTM A108
CORRECT THICKNESS	Y N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y N	LT: 415086
CORRECT MATERIAL IDENTIFICATION	Y N	
CORRECT M# ON THE MATERIAL	Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>FEB 11 2019</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

26/17

FAL-382 50714 TRA 2597



GVA
Global Vietnam
Aluminium Co., Ltd.

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: November 17, 2017

Applicant/Consignee: SINOPEC TRADING INC.
4455 RUE COUSSENS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-17529

Shipping Ref No.: 17-2204

LC No.: DC HMN714466

Date of issue: October 31, 2017

Item Code: 1008600

Die Number: D00205

Alloy & Temper: 6061-T6

Production Description: FLAT BAR 3750"X2"X20' 6061-T6 D00205

Length (inch): 240

Bundle number: P-17529-045

Heat Number: SXF171944

Date: 14/10/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.602	0.942	0.247	0.238	0.034	0.094	0.015	0.021	97.708	<0.05	<0.10	12/10/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
40.7	36.8	11.3	12/10/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

heat: SXF 171944

FAL 382

SPECIFICATION CONTROL DRAWING

Line 11
M6061T6B0.375 x 2.000

PURCHASE MATERIAL (6061-T6) 7051/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-05-03
MAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR	DS		
APPROVED	DS		
DE APPR	DS		
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. M6061T6B	REV. B
TITLE 6061-T6 BAR	SHEET 1 OF 1
SCALE	NTS
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B0.375x2.000
 DATE: 19/02/11

PO / BATCH NO.: P0042501/S152413

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 2051
 QUANTITY INSPECTED: 2051
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375"
 THICKNESS RECEIVED: 0.375"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	
CORRECT MATERIAL IDENTIFICATION	(Y)	N	41: 20000 5XF171944
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61 9-89</u> DATE: <u>FEB 11 2011</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

2536

FAL-16

52179

CA-50864

16671



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN WARD, PHU MY TOWN,
BA RIA-VUNG TAU PROVINCE, VIETNAM
Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: July 22th, 2018

Consignee: SINOPEC TRADING INC.
4455 RUE COUSENS, SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-18239

Shipping Ref No.: 18-1749

LC No.: DC HMN812691

Date of issue: July 18, 2018

Item Code: 1062500

Die Number: D00128

Alloy & Temper: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

Flat Bar 1" x 6" x 144" 6061-T6 D00128

Length (inch): 144

Bundle number: P-18239-216

Heat Number: SXA180811

Date: 03/07/2018

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remarks
									EACH	TOTAL	
0.653	0.988	0.218	0.242	0.015	0.056	0.012	0.021	97.687	<0.05	<0.10	30/06/2018

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remarks
41.79	36.55	10.8	30/06/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÓM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

heat: SXA180811

SPECIFICATION CONTROL DRAWING

Line 12
M6061T6B1.000x12.000

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221 **DA**

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-05-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	DS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DS	DRAWING NO.	REV. B
MFG APPR.	DS	M6061T6B	SHEET 1 OF 1
APPROVED	DS	TITLE	SCALE
DE APPR.	DS	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES FOR WHICH IT WAS ORIGINALLY PREPARED AND NOT FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 6061 T6 B1.000 X 06.000

PO / BATCH NO.: P0042501/S152414

DATE: 19 Oct 11

MATERIAL CERT REC'D: KS

THICKNESS ORDERED: 1.000"

QUANTITY RECEIVED: 12 Ft

THICKNESS RECEIVED: 1.000"

QUANTITY INSPECTED: 12 Ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	MT: 5x4180811
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS 61

SIGNED OFF BY: _____

DATE: 9-89 FEB 11 2011

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

#1785



EXTRUDEX
ALUMINUM CORP.

QAL-2

TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
http://www.extrudex.com

TPA-2320

MILL TEST

ACIER OUELLETTE

BILL TO EXTRUDEX ALUMINUM (QUEBEC) INC.	CERT CODE: 1	DIE NUMBER S 3132	DATE OF SHIPMENT Mar/05/2018	EXTRUDEX ORDER NO. 214883	MANIFEST NO. 387045
SHIP TO EXTRUDEX ALUMINUM (QUEBEC) INC.	CUSTOMER PO 109858	ALLOY 6061	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
SO DESCRIPTION 2" SQ BAR	CUSTOMER PART NUMBER DT03132	TEMPER T6	PART DESCRIPTION 2" SQ BAR	CERTIFICATION MILL TEST ASTM B221-14	

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Feb/26/2018	44.30	41.90	9.70	88.2, 88.4, 88.9	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
F1010046	A.11	6061	0.63	0.16	0.21	0.01	0.85	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsiram Mohabir
Quality Control Manager

heat: F1010046

SPECIFICATION CONTROL DRAWING

Line 13

M6061T6B2 000 X22.000

PURCHASE MATERIAL: 6061-T6T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-08-03
MWD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N 07-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 03
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED			
MFG APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAYKESBURY, ONTARIO, CANADA	
DRAWING NO. M6061T6B	REV. B
TITLE 6061-T6 BAR	SHEET 1 OF 1
SCALE NTS	

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B2.000 X 02.000

PO / BATCH NO.: P0042501/S152415

DATE: 1902/11

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 2.000"

QUANTITY RECEIVED: 12 FT

THICKNESS RECEIVED: 2.000"

QUANTITY INSPECTED: 12 FT

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	ASTM A213
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	MT-F1010046
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: <u>FEB 11 2019</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

2681

FCR-12112

10 15516

50784

No. de commande / order #	CLIENT / CUSTOMER	No. d'expédition/packing slip #	DATE
AC00015516	ACIER OUELLETTE INC	L40340-01	23-Apr-18
NO. DU MATÉRIEL / I.D. #	NUANCE / GRADE	TRAITEMENT THERMIQUE / HEAT TREATMENT	COULÉE / HEAT #
2017-2608	C1018	COLD FINISHED / FINI À FROID	2170922
FORME / SHAPE	DIMENSION / SIZE	SPÉCIFICATIONS	
Flat / Plat	.500" X 1.50" in.	ASTM A29-03, A108-99	
PAYS D'ORIGINE:	ENGLAND		

ANALYSE CHIMIQUE / CHEMICAL COMPOSITION

	Carbon (C)		Silicon (Si)		Manganese (Mn)		Phosphorus (P)	
min/max	0.150	0.200	0.100	18.000	0.600	0.900	0.040	
actuel (%)	0.150		0.200		0.830		0.010	
	Sulfur (S)		Chromium (Cr)		Nickel (Ni)		Molybdenum (Mo)	
min/max:	0.050		0.000	0.200	0.000	0.250	0.000	0.060
actuel (%)	0.025		0.090		0.150		0.040	
	Copper (Cu)		Vanadium (V)		Aluminium (Al)		Tungsten (W)	
min/max:	0.000	0.350	---	---	---	---	---	---
actuel (%)	0.190		0.004		0.003		0.000	

PROPRIÉTÉS MÉCANIQUES / MECHANICAL PROPERTIES

Tolérance diamètre / diameter	Résistance à la traction / Tensile	Alongement / Elongation (%)	Réduction surface / ratio	Surface HD/dureté

Aucune réparation exécutée par soudure durant la fabrication de ce produit. Par la présente nous attestons que les résultats ci-haut mentionnés ont été vérifiés et sont conformes aux spécifications.

No weld repairs performed during the manufacturing of this product. We hereby certify that the above results have been verified and conform to the above mentioned specifications.

Keith BALL



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. M1010-B	REV. A SHEET 1 OF 1
DATE 01.12.06		TITLE AISI 1010-1025 BAR	SCALE NTS
A	01.12.06	NEW ISSUE	

Line 14

M1010B0.500x01.500

PURCHASE MATERIAL: AISI 1010-1025 OR ASTM A36 / A366 / A569 / A570
OR CSA G40-21, 38W / 44W / 50W / 60W / 70W

PART NUMBER: M1010-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK WIDTH WW.WWW = WIDTH (IN INCHES)

EG. 0.75" x 2.50" BAR = M1010-B0.750x02.500

RELEASED
01.12.07

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018 B0.500x01.500

PO / BATCH NO.: P0042501/5152416

DATE: 19/02/11

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.500"

QUANTITY RECEIVED: 12.08FT

THICKNESS RECEIVED: 0.500"

QUANTITY INSPECTED: 12.08FT

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 12.08FT

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>1018</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>41: 2170922</u>
CORRECT MATERIAL IDENTIFICATION	Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61 9-89</u> DATE: <u>FEB 11 2011</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in